

National Aeronautics and Space Administration  
**George C. Marshall Space Flight Center**  
Marshall Space Flight Center, AL 35812



August 11, 2009

Reply to Attn of:

QD01

TO: DA01/Director  
THRU: IS20/MSFC Management Directives Manager  
FROM: QD01/Director, Safety and Mission Assurance  
SUBJECT Request for Deviation

Deviation Number: MPR 8730.3-DEV01

In accordance with MPR 1410.2, QD01 requests approval for deviation from MPR 8730.3, 3.2 and 3.3 including subparagraphs.

Define the proposed departure from the requirement(s):

According to MPR 8730.3 sections cited, a nonconformance or test discrepancy related to the test article is to be documented on MSFC Form 460 as either a Discrepancy Report (DR) or a Test Discrepancy Record (TDR), and the Form 460 is to be used in its processing and disposition. For Constellation-related hardware and procedures, a deviation is requested to use the Constellation Problem Reporting, Analysis, and Corrective Action (CxPRACA) problem report as the document for comparable problem reporting and dispositioning instead of using Form 460 for documenting DRs.

Justification for the deviation (include references to any applicable nonconformance, discrepancy, or deficiency report(s)):

Constellation documents CxP 70068-01 and CxP 70068-03 require NASA on-site operations to use the CxPRACA data system for recording and dispositioning hardware, software, and procedure problems on Constellation flight, flight equivalent, or flight-related components, Ground Support Equipment (GSE), or Ground Operations Facilities. (Reference CxP 70068-01, Section 3.0 and subsections.) The processes and requirements specified in that document for nonconformance recording, tracking, and dispositioning are comparable to those of MPR 8730.3, and the CxPRACA data entries and reports can be used to provide comparable documentation to meet MSFC needs.

Applicability, impacts, and conditions (if any) of deviation:

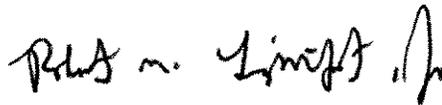
This deviation will require direct entry of problem processing data into the CxPRACA database or, if not directly available, generation of a comparable paper form and entry of the specified data into the CxPRACA data system at the earliest opportunity following data generation (not to exceed 2 work days). Related data updates are also to be entered into the system within 2 work days of their generation and/or official approval for release.

The requested deviation applies only to hardware and procedure problems on Constellation flight, flight equivalent, or flight-related components, GSE, or Ground Operations Facilities. TDRs or other nonconformance documentation that only affect the test equipment, do not have any impact on flight, flight-like, or flight equivalent hardware, and do not invalidate test results for tested Constellation-related components shall use either the CxPRACA process or continue to use an existing MPR 8730.3-authorized process. Similarly, the Software Integration Lab and Software Integration Test Facility shall use either the CxPRACA process or their existing software deficiency and enhancement tracking system (TeamTrack) provided they make their Constellation-related software deficiencies available via upload into the CxPRACA data system within at least 2 workdays of recording or revising related data in the current system. This deviation will remain in place pending determination and development of permanent implementing document(s).

Alternate plans to meet any ISO 9001 or AS9100 requirement(s):

Proposed alternate process is to follow the requirements of Constellation documents CxP 70068, Volumes 01 and 03. In addition, Marshall Ares support personnel are currently in the process of reviewing, revising, and submitting for formal approval a draft document (CxP 72353, "Ares Projects Processing of MSFC In-House Constellation Problems") that is intended to tailor CxP 70068 requirements for Marshall application.

Approved by:



Robert M. Lightfoot  
Acting Director